

Chemical Changes in Food during Processing

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Richardson T.



Chemical Changes In Food During Processing:

Chemical Changes in Food During Processing Thomas Richardson, John W. Finley, 2011-11

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Chemical Changes in Food during Processing Thomas Richardson, John W. Finley, 1986-03-31 This volume results from the Eighth Basic Symposium held by the Institute of Food Technologists in Anaheim California on June 8 9 1984 The theme of the symposium was Chemical Changes in Food during Processing The speakers included a mix of individuals from academic institutions governmental agencies and the food industry Twenty speakers discussed topics ranging from the basic chemistry relating to food constituents to the more applied aspects of chemical changes in food components during food processing It was the intent of the organizers to bring together a group of speakers who could address the chemistry of changes in food components during processing from a mechanistic point of view As a consequence the proceedings of this symposium emphasize the basic chemistry of changes in food constituents from a generic perspective which is intended to provide the reader with a background to address more specific problems that may arise

Chemical Changes During Processing and Storage of Foods Delia B. Rodriguez-Amaya, Jaime Amaya-Farfan, 2020-11-25 Chemical Changes During Processing and Storage of Foods Implications for Food Quality and Human Health presents a comprehensive and updated discussion of the major chemical changes occurring in foods during processing and storage the mechanisms and influencing factors involved and their effects on food quality shelf life food safety and health Food components undergo chemical reactions and interactions that produce both positive and negative consequences This book brings together classical and recent knowledge to deliver a deeper understanding of this topic so that desirable alterations can be enhanced and undesirable changes avoided or reduced Chemical Changes During Processing and Storage of Foods provides researchers in the fields of food science nutrition public health medical sciences food security biochemistry pharmacy chemistry chemical engineering and agronomy with a strong knowledge to support their endeavors to improve the food we consume It will also benefit undergraduate and graduate students working on a variety of disciplines in food chemistry Offers a comprehensive overview of the major chemical changes that occur in foods at the molecular level and discusses the positive and negative effects on food quality and human health Describes the mechanisms of these chemical changes and the factors that impede or accelerate their occurrence Helps to solve daily industry problems such as loss of color and nutritional quality alteration of texture flavor deterioration or development of off flavor loss of nutrients and bioactive compounds or lowering of their bioefficacy and possible formation of toxic compounds

Chemical Changes in Food During Processing Richardson T., 1997

Process-Induced Chemical Changes in Food Fereidoon Shahidi, Chi-Tang Ho, Nguyen Van Chuyen, 1998-04-30
Chemical changes that occur in foods during processing and storage are manifold and might be both desirable and

undesirable in nature While many of the processes are carried out intentionally there are also certain unwanted changes that naturally occur in food and might have to be controlled Therefore efforts are made to devise processing technologies in which desirable attributes of foods are retained and their deleterious effects are minimized While proteins lipids and carbohydrates are the main nutrients of food that are affected by processing it is their interaction with one another as well as involvement of low molecular weight constituents that affects their flavor color and overall acceptability Thus generation of aroma via thermal processing and bioconversion is of utmost importance in food preparation Furthermore processing operations must be optimized in order to eliminate or reduce the content of antinutrients that are present in foods and retain their bioactive components Therefore while novel processing technologies such as freezing irradiation microwaving high pressure treatment and fermentation might be employed control process conditions in a manner that both the desirable sensory attributes and wholesomeness of foods are safeguarded is essential Obviously methodologies should also be established to quantitate the changes that occur in foods as a result of processing This volume was developed from contributions provided by a group of internationally recognized lead scientists Chemical Changes in Food During Processing (PB) Richardson; Finley, 2003-02-01 Chemical Changes During Food Processing Jiří Dáviděk, Jan Velišek, 1990-01-01 Distributed in Hungary Albania Bulgaria China Cuba Czechoslovakia GDR Dem People's Rep of Korea Mongolia Poland Rumania Soviet Union Dem Rep of Vietnam and Yugoslavia by Avicenum Czechoslovak Medical Press Praha The book deals with the chemical reactions taking place in food during industrial processing and storage and shows how various food components react according to their chemical composition and the influence of other components or processing conditions The work describes in detail the changes of the main food components proteins saccharides lipids and of other components important from the standpoint of the nutritional sensory and hygienic properties of food materials Important changes of physical properties which may affect the chemical reactivity are given as well The most important reactions are elucidated on examples from technological processes which also show the effect of these chemical reactions on the most important properties of food products *Processing and Packaging Heat Preserved Foods* J.A.G. Rees, J. Bettison, 1991-01-31 Principles of heat preservation heat processing equipment aseptic processing and packaging of heat preserved foods in glass containers packaging of heat preserved foods in plastic containers leaker spoilage of foods heat processed in hermetically sealed containers the effect of heat preservation on product quality recommendations for the good manufacturing practice of heat preserved foods Handbook of Food Preservation M. Shafiur Rahman, 1999-01-21 With over 2900 references tables and drawings this book covers a wide variety of conventional and potential food preservation techniques Emphasizing practical cost effective and safe strategies the book facilitates the selection of the best food ingredients and preservation techniques It covers postharvest handling explains conventional preservation methods details the use of natural antimicrobials antioxidants edible coating nitrites food packaging and HACCP in food safety

Highlighting the effects of preservation methods on the functional and sensory properties of foods the book also features the exact mode or mechanisms involved in each preservation method

International Food Safety Handbook Kees Van der Heijden, 2019-07-05 Covers all aspects of food safety science regulation and labeling requirements integrating major developments in the fields of toxicology analytical chemistry microbiology hygiene and nutrition Designed to be a reference that bridges the gaps between science regulation and control of food safety While this might have been a rather ambitious aim in putting together this book the editors have certainly succeeded in gathering a group of experts from industry government agencies academia consumer groups and the media whose knowledge and expertise reflect the complex and multisectoral multidisciplinary nature of food safety

Food Science and Technology Food Chemistry, Third Edition Owen R. Fennema, 1996-06-19 Offers up to the minute coverage of the chemical properties of major and minor food constituents dairy products and food tissues of plant and animal origin in a logically organized step by step presentation ranging from simple to more complex systems Third Edition furnishes completely new chapters on proteins dispersions enzymes vitamins minerals animal tissue toxicants and pigments

Impact of Processing on Food Safety Lauren S. Jackson, Mark G. Knize, Jeffrey N. Morgan, 2012-12-06 The contents of this book are the proceedings of the ACS symposium Impact of Processing on Food Safety which was held April 16 17 1997 at the American Chemical Society National Meeting in San Francisco CA This symposium brought together researchers from diverse backgrounds in academia government and industry Twenty speakers discussed topics ranging from the regulatory aspects of food processing to the microbiological and chemical changes in food during processing The main goal of food processing is to improve the microbial safety of food by destroying pathogenic and spoilage organisms Food processing can also improve food safety by destroying or eliminating naturally occurring toxins chemical contaminants and antinutritive factors Unfortunately processing can also cause chemical changes that result in the formation of toxic or antinutritive factors The purpose of this book is to summarize our knowledge of both the beneficial and deleterious effects of processing Chapter 1 considers the consumer's perceptions about food contaminants and food processing Chapter 2 summarizes the effects of traditional and nontraditional processing methods on microorganisms in food Chapters 3-6 review the effects of processing on lipids fatty acids and cholesterol in food Changes in the nutritive value of vitamins and minerals as a result of processing are discussed in chapter 7 Chapter 8 concentrates on how processing reduces the allergenicity of some foods

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Natural Toxic Compounds of Foods Formation Change During Food Processing Storage Jiri Davidek, 1995-03-03 This book summarizes the knowledge of naturally occurring toxic and antinutritive food compounds It includes those plants and animals

of value or potential value for human nutrition either by direct consumption or indirect as feed for domestic animals Also included are toxic and antinutritive compounds formed from food components during processing and storage as well as the toxic and antinutritive compounds present as natural constituents in raw materials and foodstuffs FEATURES Discusses food intolerance inducing compounds toxins and toxic compounds Focuses on the most frequently occurring intolerances Describes the reaction conditions for the formation of these compounds as well as for their degradation Considers nitroso compounds and ethyl carbamate formation

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